

SINGLE SUPPLY: ULTRA LOW POWER

THESE AMPLIFIERS ARE ALSO SPECIFIED ON THE DATA SHEET AT $\pm 15V$ RAILS. THEY ARE DEPICTED HERE AT THE MINIMUM RAIL AT WHICH THEY ARE SPEC'D.																									
MODEL	MIN	OPEN	COMMON	INITIAL	Eos	< INPUT BIAS CURRENT <---- VOLTAGE NOISE ----> <---- CURRENT NOISE ---->										TOTAL				Model Designator					
						Ib	Ib	Ios	@ .1 to 10HZ	100HZ	1KHZ	.1>10HZ	10HZ	100HZ	1KHZ	SUPPLY	SLEW	UNITY	INPUT	OUTPUT	Temperature Range		PRICE		
NUMBER	RAIL	LOOP	MODE	OFFSET	vs	+25C	@ Ta	+25C	.1 to 10HZ	100HZ	1KHZ	.1>10HZ	10HZ	100HZ	1KHZ	CURRENT	RATE	GAIN	SWING	SWING	0	-25	-40	-55	PRICE
	GAIN	REJECT	Eos	Temp	MAX	MAX	MAX	MAX	10 HZ							Iq					70	85	85	125	
			CMRR																						
SINGLE	VOLTS	V/uV	dB	$\pm mV$	MAX	$\pm uV/C$	$\pm nA$	$\pm nA$	$\pm nA$	uV	PP	<----nV/----	pA	PP	<-----pA/----	uA	V/uSEC	MHZ	VOLTS	VOLTS					100's
OP22 RESISTOR PROGRAMMABLE Iq																									
OP22	+3V	0.25	85	1	3	10	10	3	NS	NS	NS	NS	NS	NS	NS	1>10	0.08	0.25	0>2.5			H			
OP22	+3V	0.5	95	0.5	2.5	7.5	7.5	2														F			
OP22	+3V	1	100	0.33	2	5	5	1														A	E		
OP32 RESISTOR PROGRAMMABLE Iq, Avmin=10																									
OP32	+3V	0.5	85	1	3	50	50	3	NS	NS	NS	NS	NS	NS	NS	15>300	0.001	0.1	0>2.5			G			
OP32	+3V	0.75	95	0.5	2	35	35	2														H			
OP-90	+5V	0.4	80	0.45	5	25	25	5	3								15	0.005	NS	0> 4V	0> 3.9		G		\$1.65
OP-90	+5V	0.5	80	0.25	5	20	20	5														F		\$2.25	
OP-90	+5V	0.7	90	0.15	2	15	15/20	3														E	A	\$3.95	
OP-181	+3V	0.005	65	1.5	30	10	10	7	10		75					1	4uA	0.0025	0.095	0>2	R to R		G		
OP-186	+3V	0.005	65	1	30	8	10	7	10		110					1	4uA	0.0025	0.095	0>2	R to R		G		
OP-193	+2V	0.06	NS	0.15	3	10	20	4	3		65					0.05	22	0.01	0.025	0> 1V	R to R		E		\$1.49
OP-193	+2V			0.075	2	15	15	2	3													E		\$3.55	
OP-196	+3V	0.1	60	0.3	6	30	NS	5	0.8		26					0.19	50	0.25	0.35	R to R	R to R		G		\$1.65
OP-196	+5V	0.15	65	0.3	6	30	15	5	0.8		26					0.19	60	0.25	0.35	R to R	R to R		G		\$1.65
AD8541	+3V	0.1	65	5		4pA		2pA			100					1	10	0.6	0.5	R to R	R to R	A			
AD8541	+5V	0.3	65	5		4pA		2pA			90					1	10	0.7	0.7	R to R	R to R	A			
DUALS																									
OP-281	+3V	0.005	65	1.5	30	10	10	7	10		75					1	8uA	0.0025	0.095	0>2	R to R		G		
OP-290	+5V	0.1	60	0.5	NS	25	25	5									30	0.005		0> 4	0> 4		G		\$2.50
OP-290	+5V	0.125		0.3	5	20	20															F		\$3.40	
OP-290	+5V	0	0.2	60	0.2	3	15	15	3													F	A	\$5.50	
OP-293	+2V	0.06	NS	0.15	3	20	20	4	3		65					0.05	44	0.01	0.025	0> 1V	R to R		E		\$2.45
OP-293	+2V			0.075	2	15	15	2	3													E		\$5.40	
OP-220	+5V	0.3	65	0.75	3	30	40	3.5	NS	NS	NS	NS	NS	NS	NS	135	0.05	NS	0> 3.5V	.8>4.1V		G	G	\$2.13	
OP-220		0.5	65		0.3	2	25	30	2								125			.7>4.1V		F		\$4.00	
OP-220		0.5	60	0.15	1.5	20	25	1.5									115			.8>4.1V		F	A	\$5.40	
AD8542	+3V	0.1	65	5		4pA		2pA			100					2	10	0.6	0.5	R to R	R to R	A			
AD8542	+5V	0.3	65	5		4pA		2pA			90					2	10	0.7	0.7	R to R	R to R	A			
OP-296																									
OP-296	+3V	0.1	60	0.3	6	30	NS	5	0.8		26					0.19	100	0.25	0.35	R to R	R to R		G		\$1.63
OP-296	+5V	0.15	65	0.3	6	30	15	5	0.8		26					0.19	120	0.25	0.35	R to R	R to R		G		\$1.63
OP-295	+3V	0.75typ	60	0.5	5	20	30	3	1.6		53					0.6	300	0.03	0.075	0>2V	R to R		G	A	\$2.20
QUADS																									
OP-481	+3V	0.005	65	1.5	30	10	10	7	10		75					1	16uA	0.0025	0.095	0>2	R to R		G		
OP-490	+5 to 36	0.2	60	1	9	25	25	5									60	0.005	0.02	0> 4	0> 4		G		\$3.30
OP-490	or	0.25		0.75	3	20	20														F			\$4.50	

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MODEL	MIN	OPEN	COMMON	INITIAL	Eos	Ib	Ib	Ios	@	@	@	@	@	@	@	@	SUPPLY	SLEW	UNITY	INPUT	OUTPUT	Range					
NUMBER	RAIL	LOOP	MODE	OFFSET	vs	+25C	@ Ta	+25C	.1 to	10HZ	100HZ	1KHZ	.1>10HZ	10HZ	100HZ	1KHZ	CURRENT	RATE	GAIN	SWING	SWING	0	-25	-40	-55	PRICE	
		GAIN	REJECT	Eos	Temp	MAX	MAX	MAX	10 HZ								Iq					70	85	85	125		
		CMRR																									
VOLTS	V/uV	dB	$\pm mV$	MAX	$\pm uV/C$	$\pm nA$	$\pm nA$	$\pm nA$	uV	PP	<----nV/ ---->	pA	PP	<-----pA/ ---->	uA	V/uSEC	MHZ	VOLTS	VOLTS						100's		
OP-490	+3 to 36	0.35	90	0.5	5	15	15/20	3	3																E	A	\$6.50
OP-493	+2V	0.06	NS	0.15	3	20	20	4	3		65						0.05	88	0.01	0.025	0>1V	R to R		F		\$3.30	
OP-493	+2V			0.075	2	15	15	2	3																E		\$6.50
OP-420	+5V	NS	83	6	25	40	60	6		50	50					0.12	0.12		200	0.25	0.15	0>3.5V	.7>4.1V		HY	B	\$2.80
OP-420		0.4	80	4	15	30	40	2.5																	G	C	\$2.25
OP-496	+3V	0.1	60	0.3	6	30	NS	5	0.8		26					0.19	200	0.25	0.35	R to R	R to R				G		\$2.50
OP-496	+5V	0.15	65	0.3	6	30	15	5	0.8		26					0.19	240	0.25	0.35	R to R	R to R				G		\$2.50
AD8544	+3V	0.1	65	5		4pA		2pA		100							4	10	0.6	0.5	R to R	R to R	A				
AD8544	+5V	0.3	75	5		4pA		2pA		90							4	10	0.7	0.7	R to R	R to R	A				
OP-495	+3V	0.75typ	90	0.5	5	20	30	3	1.6		53						0.6	600	0.03	0.075	0>2V	R to R			G	A	\$3.95